

AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated in the following listing of all claims:

1. (Currently Amended) A method for activating a mobile communication device in a wireless network comprising:  
establishing a data transmission link between said mobile communication device and the wireless network;  
said mobile communication device receiving, via said data transmission link, at least one assigned operating parameter; and  
storing said at least one assigned operating parameter in a memory element associated with said mobile communication device, wherein said memory element initially contains at least one temporary operating parameter that facilitates operation of said mobile communication device in an activation mode,  
said mobile communication device is compatible with General Packet Radio Service (GPRS); and  
said at least one assigned operating parameter comprises an International Mobile Subscriber Identity (IMSI).
2. (Cancelled)
3. (Previously Presented) A method according to claim 1, wherein said storing step replaces said at least one temporary operating parameter with said at least one assigned operating parameter.
4. (Previously Presented) A method according to claim 1, further comprising the step of transmitting an attach request using said at least one temporary operating parameter.
5. (Original) A method according to claim 1, wherein said establishing step establishes a wireless packet data transmission link.
6. (Cancelled)

7. (Original) A method according to claim 1 further comprising transmitting, via said data communication link, information indicative of a number of service features selected by a user of said mobile communication device.

8. (Currently Amended) ~~The method of claim 1 further comprising A method for over-the-air modification of service features for a user of a mobile communication device capable of receiving data in accordance with a data transmission protocol, said method comprising:~~  
establishing a wireless data transmission link associated with said mobile communication device; and  
said mobile communication device transmitting, via said wireless data transmission link and in accordance with said data transmission protocol, a request to modify at least one service feature for said user.

9. (Currently Amended) A method according to claim 8, further comprising the step of receiving, via said ~~wireless~~ data transmission link and in accordance with said data transmission protocol, information related to at least one current service feature for said user.

10. (Original) A method according to claim 8, wherein:  
said mobile communication device is compatible with General Packet Radio Service (GPRS); and  
said establishing step establishes a wireless Internet Protocol (IP) data transmission link.

11. (Original) A method according to claim 8, wherein:  
said establishing step establishes said ~~wireless~~ data transmission link between said mobile communication device and a network support node;  
said transmitting step transmits said request to said network support node; and  
said method further comprises the step of updating a service feature database associated with said user, said updating step being performed in response to said request.

12. (Currently Amended) A programmable module for use with a mobile communication device capable of receiving data in accordance with a data transmission protocol, said programmable module comprising:

a memory element for storing at least one temporary operating parameter that facilitates operation of said mobile communication device in an activation mode; and an interface configured to receive at least one assigned operating parameter during said activation mode, wherein said mobile communication device receives said at least one assigned operating parameter over a data transmission link and in accordance with said data transmission protocol,

said at least one temporary operating parameter comprises a temporary International

Mobile Subscriber Identity (IMSI); and

said at least one assigned operating parameter comprises a permanent IMSI.

13. (Original) A programmable module according to claim 12, wherein said memory element is further configured to store said at least one assigned operating parameter.

14. (Original) A programmable module according to claim 12, wherein said memory element is further configured to overwrite said at least one temporary operating parameter with said at least one assigned operating parameter.

15. (Original) A programmable module according to claim 12, wherein:  
said mobile communication device is compatible with General Packet Radio Service (GPRS); and  
said programmable module is configured as a Subscriber Identity Module (SIM).

16. (Cancelled)

17. (Original) A programmable module according to claim 12, wherein said mobile communication device receives said at least one assigned operating parameter over a wireless packet data transmission link.

18. (Currently Amended) A mobile communication device capable of receiving data over a data transmission link in accordance with a data transmission protocol, said mobile communication device comprising:

a receiver configured to receive, via said data communication link and in accordance with said data transmission protocol, at least one assigned operating parameter; and a memory element electronically coupled to said receiver, said memory element being configured to store said at least one assigned operating parameter, wherein said memory element initially contains at least one temporary operating parameter that facilitates operation of said mobile communication device in an activation mode, said receiver is compatible with General Packet Radio Service (GPRS); said at least one temporary operating parameter comprises a temporary International Mobile Subscriber Identity (IMSI); and said at least one assigned operating parameter comprises a permanent International Mobile Subscriber Identity (IMSI).

19. (Cancelled)

20. (Previously Presented) A mobile communication device according to claim 18, further comprising a transmitter configured to transmit, via said data communication link and in accordance with said data transmission protocol, an attach request using said at least one temporary operating parameter.

21. (Cancelled)

22. (Currently Amended) A method for activating a mobile communication device capable of receiving data in accordance with a packet data protocol, said method comprising the steps of:

providing a programmable module that is compatible with said mobile communication device, said programmable module storing at least one temporary operating parameter to facilitate operation of said mobile communication device in an activation mode;

establishing a packet data transmission link between said mobile communication device and a network support node during said activation mode;

transmitting, via said packet data transmission link, at least one assigned operating parameter to said mobile communication device; [[and]]

storing said at least one assigned operating parameter at said programmable module;  
detaching said mobile communication device from said network support node; and  
generating, from said mobile communication device, a reattach request using said at least  
one assigned operating parameter.

23. (Original) A method according to claim 22, wherein said storing step replaces said at least one temporary operating parameter with said at least one assigned operating parameter.

24. (Previously Presented) A method according to claim 22, further comprising the step of transmitting, from said mobile communication device, an attach request using said at least one temporary operating parameter.

25. (Original) A method according to claim 22, wherein said establishing step establishes a wireless packet data transmission link.

26. (Cancelled)

27. (Original) A method according to claim 22, further comprising the step of receiving via said packet data communication link, information indicative of a number of service features selected by a user of said mobile communication device.

28. (Currently Amended) The method of claim 22 further comprising: A method for over-  
~~the air modification of service features associated with a user of a mobile communication device,~~  
~~said method comprising the steps of:~~

~~establishing a communication link between said mobile communication device and a~~  
~~network support node;~~

transmitting, via said ~~communication~~ packet data transmission link, information related to a  
 number of current service features for said user, said transmitting step being  
 performed by said network support node;

said network support node receiving, from said user, a request to modify a current service  
 feature associated with said user; and

updating a service provider associated with said network support node in response to said request to thereby implement the modification of said current service feature.

29. (Original) A method according to claim 28, wherein:

said mobile communication device is capable of receiving data in accordance with a packet data protocol;

said communication link established during said establishing step is a wireless packet data transmission link; and

said receiving step receives said request over said wireless packet data transmission link and in accordance with said packet data protocol.

30. (Original) A method according to claim 29, wherein:

said mobile communication device is compatible with General Packet Radio Service (GPRS); and

said establishing step establishes a wireless Internet Protocol (IP) data transmission link.

31. (Original) A method according to claim 28, further comprising the steps of:

retrieving said number of current service features for said user from said service provider database; and

determining the location of said mobile communication device to facilitate said transmitting step.

32. (Currently Amended) The method of claim 43, wherein providing the activation options comprises: ~~A method of providing user selectable service options for a wireless device within a wireless network, comprising:~~

providing an electronic option menu to a user of the wireless device;

transmitting user service option selections to the wireless network; and

providing selected service options to the wireless device in response to the user service option selections.

33. (Original) A method of providing user-selectable service options for a wireless device according to claim 32, further comprising establishing a wireless link between the wireless device and the wireless network.

34. (Original) A method of providing user-selectable service options for a wireless device according to claim 33, wherein providing an electronic option menu further comprises providing an electronic option menu on the wireless device after establishing the wireless link.

35. (Original) A method of providing user-selectable service options for a wireless device according to claim 34, wherein the electronic option menu further comprises promotional information.

36. (Original) A method of providing user-selectable service options for a wireless device according to claim 32, wherein providing an electronic option menu further comprises providing an electronic option menu via a communication device other than the wireless device.

37. (Original) A method of providing user-selectable service options for a wireless device according to claim 32, further comprising:

verifying user information in the wireless network; and  
registering the user service option selections in a database.

38. (Currently Amended) The method of claim 41 further comprising ~~A method of providing automated modification of service options for a wireless device in a wireless network, comprising:~~

providing a user information regarding present services;  
providing the user a menu of possible services;  
receiving service modification choices from the user; and  
modifying user services according to the service modification choices.

39. (Original) A method of providing automated modification of service options for a wireless device in a wireless network according to claim 38, wherein providing a user information regarding present services further comprises providing the user information via the wireless

device after establishing a communication link between the wireless device and the wireless network.

40. (Original) A method of providing automated modification of service options for a wireless device in a wireless network according to claim 39, wherein providing the user a menu of possible services further comprises providing the menu via the wireless device and wherein receiving service modification choices further comprises receiving the service modification choices via the wireless device.

41. (Original) A method for activating an unprogrammed mobile station from a service node in a radio packet communication network, the method comprising:  
storing an activation identifier in a memory that is accessible by the service node,  
wherein the activation identifier includes identity information about the  
unprogrammed mobile station;  
connecting the unprogrammed mobile station to the service node via a data control  
channel;  
transferring the unprogrammed mobile station from the data control channel to a  
corresponding packet channel, in which packet control and data signals are  
communicated between the service node and the mobile station; thereafter  
accessing the memory to identify the mobile station according to the activation identifier;  
communicating activation signals to the mobile station via the packet channel; and  
thereafter  
programming the mobile station for receiving packet data from an applications server.

42. (Cancelled)

43. (Currently Amended) A method of activating a wireless device in a wireless network comprising:  
attaching the wireless device to the wireless network;  
establishing a packet data protocol (PDP) context for the wireless device attached to the  
wireless network; [[and]]



providing activation options to the wireless device while the wireless device is in the PDP context, wherein the activation options include at least one of features, service plans, and contractual terms;

~~A method of activating a wireless device according to claim 42, wherein attaching the wireless device to the wireless network further comprises:~~

preprogramming the wireless device with a temporary mobile station identification and internet protocol address of an activation server in a subscriber identity module (SIM); and

sending an attach request signal including the temporary mobile station identification to a serving general packet radio service support node (SGSN) over a packet control channel.

44. (Original) A method of activating a wireless device in a wireless network according to claim 43, wherein attaching the wireless device to the wireless network further comprises:

sending a location update signal to a home location register (HLR) supporting the unprogrammed mobile station; and

sending subscription data from the HLR to the SGSN, the subscription data informing the SGSN of an unprogrammed mobile station and that no services other than activation are allowed in a packet data protocol context.

45. (Original) A method of activating a wireless device in a wireless network according to claim 44, wherein attaching the wireless device to the wireless network further comprises sending an attach accept signal from the SGSN to the mobile station.

46. (Original) A method of activating a wireless device in a wireless network according to claim 45, wherein establishing a PDP context for the wireless device attached to the wireless network further comprises:

initiating a special PDP context for activation request to the SGSN; and

transmitting a create PDP context request from the SGSN to a gateway general packet radio service support node (GGSN).

47. (Original) A method of activating a wireless device in a wireless network according to claim 46, wherein establishing a PDP context for the wireless device attached to the wireless network, further comprises:

- creating a new entry in a PDP context table;
- assigning a dynamic IP address for the mobile station;
- returning a response to the SGSN including the dynamic IP address; and
- sending a response signal, from the SGSN to the mobile station, indicating an active context for activation, including the dynamic IP address.

48. (Original) A method of activating a wireless device in a wireless network according to claim 47, wherein the step providing activation options further comprises:

- connecting the mobile station to the IP address of an activation server using the preprogrammed IP address in the mobile station's SIM; and
- providing the mobile station's dynamic IP address to the activation server.

49. (Original) A method of activating a wireless device in a wireless network according to claim 48, wherein the step of providing activation options further comprises:

- transmitting data from the activation server to the mobile station using the dynamic IP address; and
- providing activation functions to the mobile station for user service choices.

50. (Original) A method of activating a wireless device in a wireless network according to claim 49, wherein the step of providing activation options further comprises downloading SIM information to the mobile station, including a permanent mobile station identification.

51. (Original) A method of activating a wireless device in a wireless network according to claim 50, further comprising, after completion of activation:

- deactivating the activation context;
- releasing the activation context IP address; and
- detaching the temporary mobile station identification from the network by sending a detach signal to the SGSN to clear the mobility information from the SGSN and the HLR.

52. (Original) A method of activating a wireless device in a wireless network according to claim 51, further comprising, after activation:

resetting the mobile station;

storing a permanent mobile station identification in the mobile station;

initiating system selecting using intelligent roaming; and

registering with the preferred system using the permanent mobile station identification.